	Application No.	Applicant(s)
	10/645,248	BENNETT ET AL.
Notice of Allowability	Examiner	Art Unit
	Jonas N. Strickland	1754
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED in this apple-85) or other appropriate communication NT RIGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment</u>	filed on 8/30/2004.	
2. The allowed claim(s) is/are claims 1 and 11-14.		
3. \square The drawings filed on <u>21 August 2003</u> are accepted by	by the Examiner.	
 4. Acknowledgment is made of a claim for foreign prior a) All b) Some* c) None of the: 1. Certified copies of the priority documents 		
Certified copies of the priority documents		0/590,454 .
3. Copies of the certified copies of the priori	ty documents have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DANGED TO THE THREE MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which	submitted. Note the attached EXAMINER h gives reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.	
(a) ☐ including changes required by the Notice of Draft	sperson's Patent Drawing Review (PTO-	948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _	·	
(b) ☐ including changes required by the attached Exam Paper No./Mail Date	niner's Amendment / Comment or in the C	office action of
Identifying indicla such as the application number (see 37 (each sheet. Replacement sheet(s) should be labeled as suc	CFR 1.84(c)) should be written on the drawir h in the header according to 37 CFR 1.121(c	ngs in the front (not the back) of i).
7. DEPOSIT OF and/or INFORMATION about the cattached Examiner's comment regarding REQUIREM	deposit of BIOLOGICAL MATERIAL n ENT FOR THE DEPOSIT OF BIOLOGIC,	nust be submitted. Note the AL MATERIAL.
Attachment(s)	- D	
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-	948) 6. 🗌 Interview Summary Paper No./Mail Dat	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit

7. Examiner's Amendment/Comment

9. Other _____.

8.

Examiner's Statement of Reasons for Allowance

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Allowable Subject Matter

- 1. Claims 1 and 11-14 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Matacotta et al. discloses catalysts for the full oxidation of volatile organic compounds, particularly hydrocarbons, which comprises a compound having the formula $A_2B_3O_{6\pm d}$ where A is an alkaline-earth metal, an alkaline metal, a lanthanide, or a solid solution thereof and B is a transition metal (see abstract). Matacotta continues to disclose wherein A may be chosen from a Sr solid solution and B may be copper (p. 2, lines 18-24). The catalyst shows a surface area of 116 m²/g (p. 8, lines 10-13). While, Matacotta does not disclose a compound corresponding to the formula $A_{14}Cu_{24}O_{41}$, Matacotta et al clearly teaches wherein it is known in the art to use an active compound comprised of Sr, Cu, and O in treating hydrocarbons.

McCarron et al. teaches a superconductor byproduct having the formula $Sr_{14}Cu_{24}O_{41}$ (see abstract).

Aufdembrink et al. teaches ternary oxide phases, including copper oxide, which are superconductors are employed in catalytic processes, such as treating hydrocarbons. The ternary oxide phases include La-Sr-Cu (see abstract and col. 1, lines 5-25).

The cited prior art fails to disclose a method of preparing $Sr_{14}Cu_{24}O_{41}$ and $Ca_4Cu_5O_{10}$ under the process conditions as instantly claimed. The prior art fails to disclose the molar concentration of the aqueous solution as well as the heating temperatures as instantly claimed.

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Instant claim 1 recites wherein the catalyst comprises 5% to 20% by weight of the non-crystalline compound, which corresponds to A₁₄Cu₂₄O₄₁, where A is Sr and B₄Cu₅O₁₀, where B is Ca. The cited prior fails to teach the instantly claimed weight ratio. Nakatsuji et al. (US Patent 5,380,692) discloses a catalyst comprised of La, Sr, Cu, and O in the weight range of 0.1 to 70% by weight (col. 6, lines 33-39), but Nakatsuji et al. is geared towards reducing nitrogen oxides and is not directed towards reducing VOC's.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonas N. Strickland September 17, 2004

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